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Tian et al.

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(54) **ABRASIVE ARTICLE AND METHOD OF FORMING**

(71) Applicants: **Saint-Gobain Abrasives, Inc.**,
Worcester, MA (US); **Saint-Gobain**
Abrasifs, Conflans-Sainte-Honorine
(FR)

(72) Inventors: **Yinggang Tian**, Shrewsbury, MA (US);
Paul W. Rehrig, Sterling, MA (US);
Arup K. Khaund, Northborough, MA
(US)

(73) Assignees: **SAINT-GOBAIN ABRASIVES, INC.**,
Worcester, MA (US); **SAINT-GOBAIN**
ABRASIFS, Conflans-Sainte-Honorine
(FR)

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See application file for complete search history.

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Primary Examiner — Robert Rose

(74) *Attorney, Agent, or Firm* — Abel Law Group, LLP;
Joseph P Sullivan

(57) **ABSTRACT**

An abrasive article including a substrate as an elongated
member, a first layer overlying the substrate, abrasive par-
ticles overlying the first layer, fillets connecting the first layer
and the abrasive particles, a bonding layer overlying the abra-
sive particles, the first layer and the fillets, and the fillets have
a fillet characteristic relative to an abrasive application, the
fillet characteristic selected from the group consisting of tack-
ing factor (t_f/t_p), a fillet-to-particle factor (t_f/d_{ab}), a fillet-to-
bonding layer factor (t_f/t_{bl}), a contact factor (A_b/A_p), a fillet
size variance (V_p), and a combination thereof.

19 Claims, 16 Drawing Sheets

